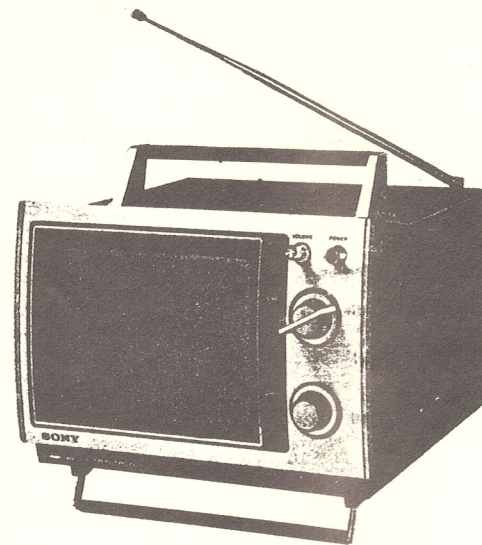
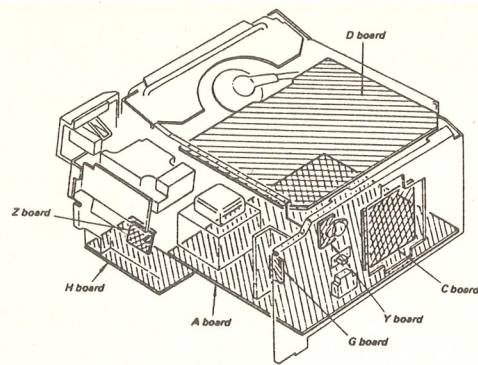


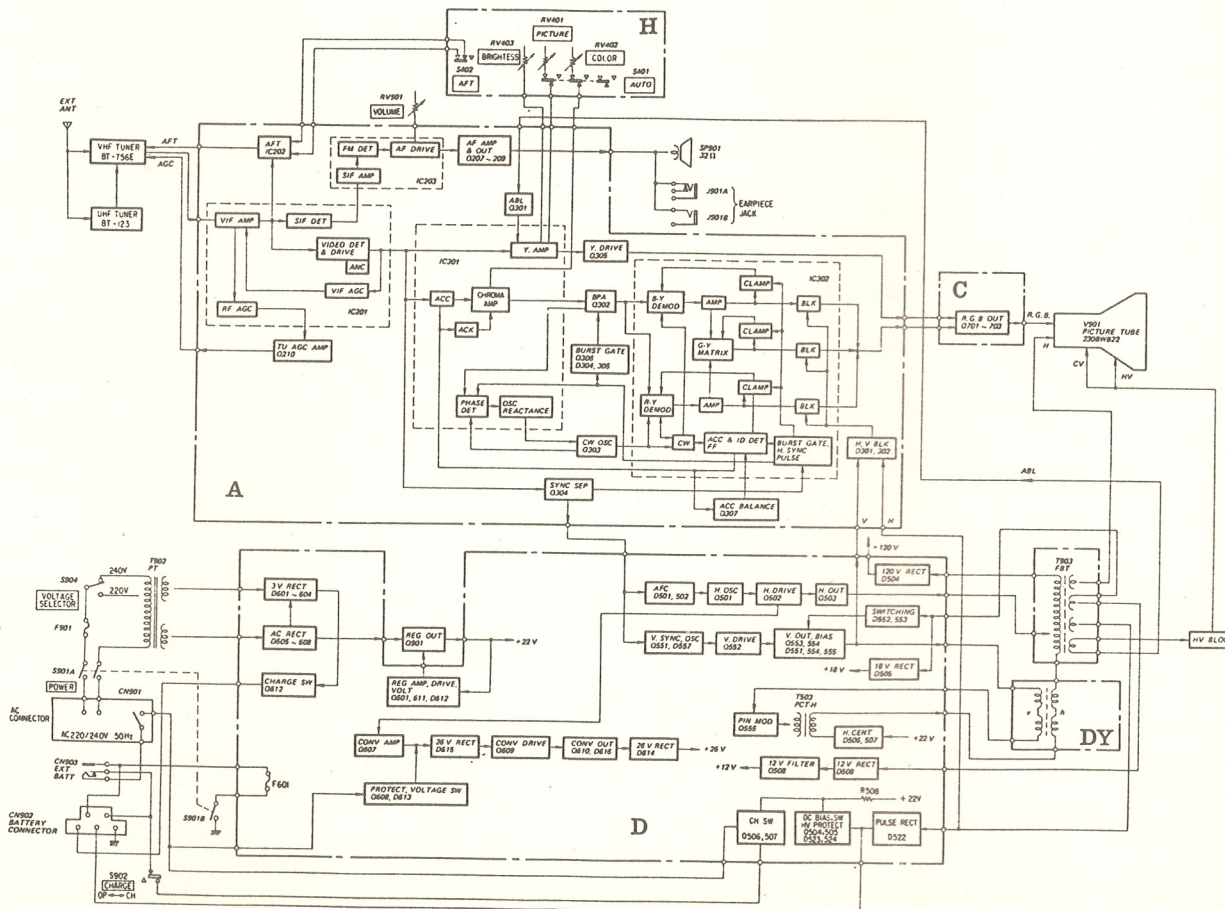
KV-9000E

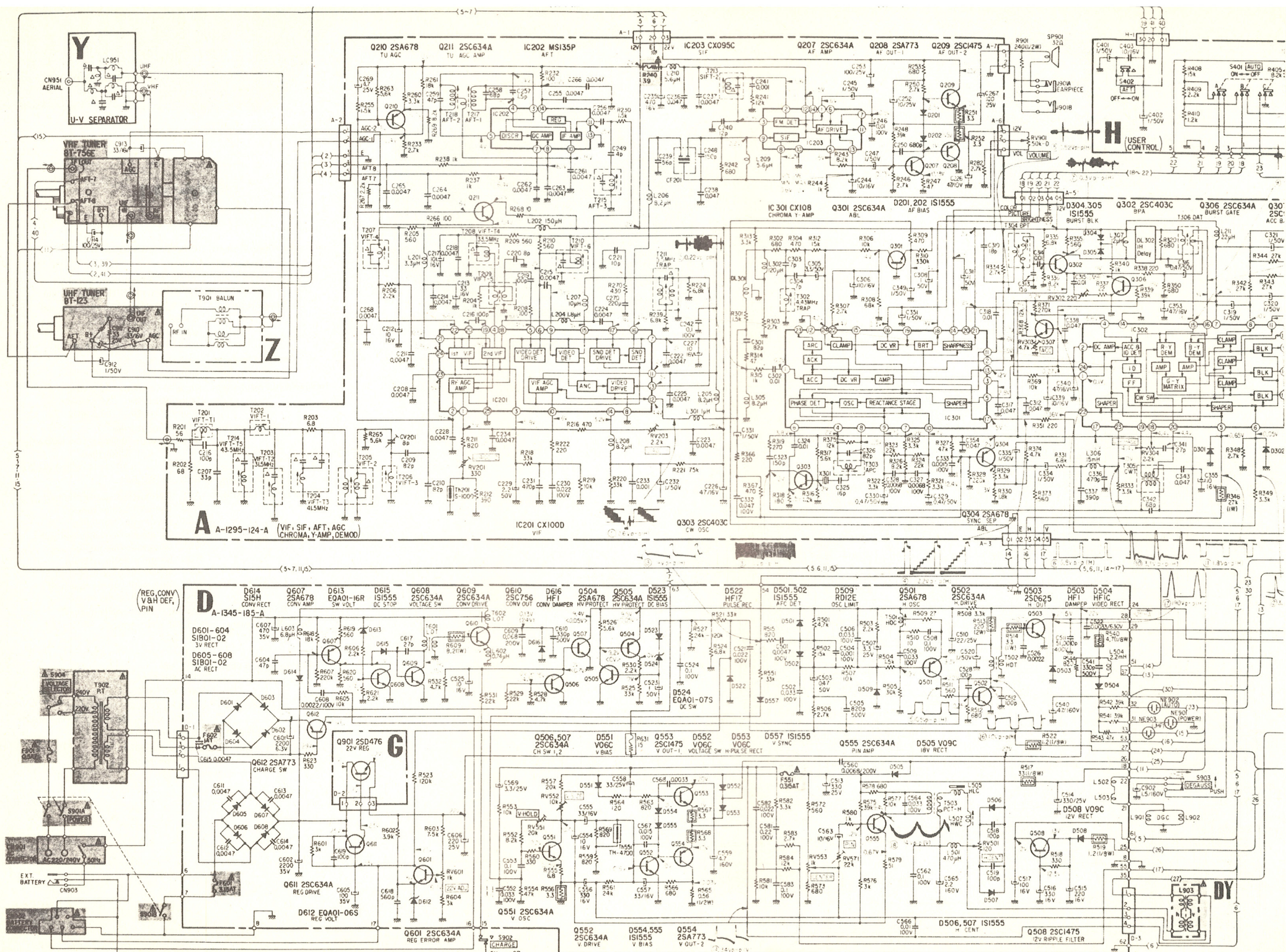
BP-80E



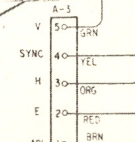
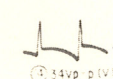
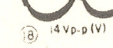
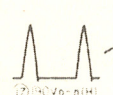
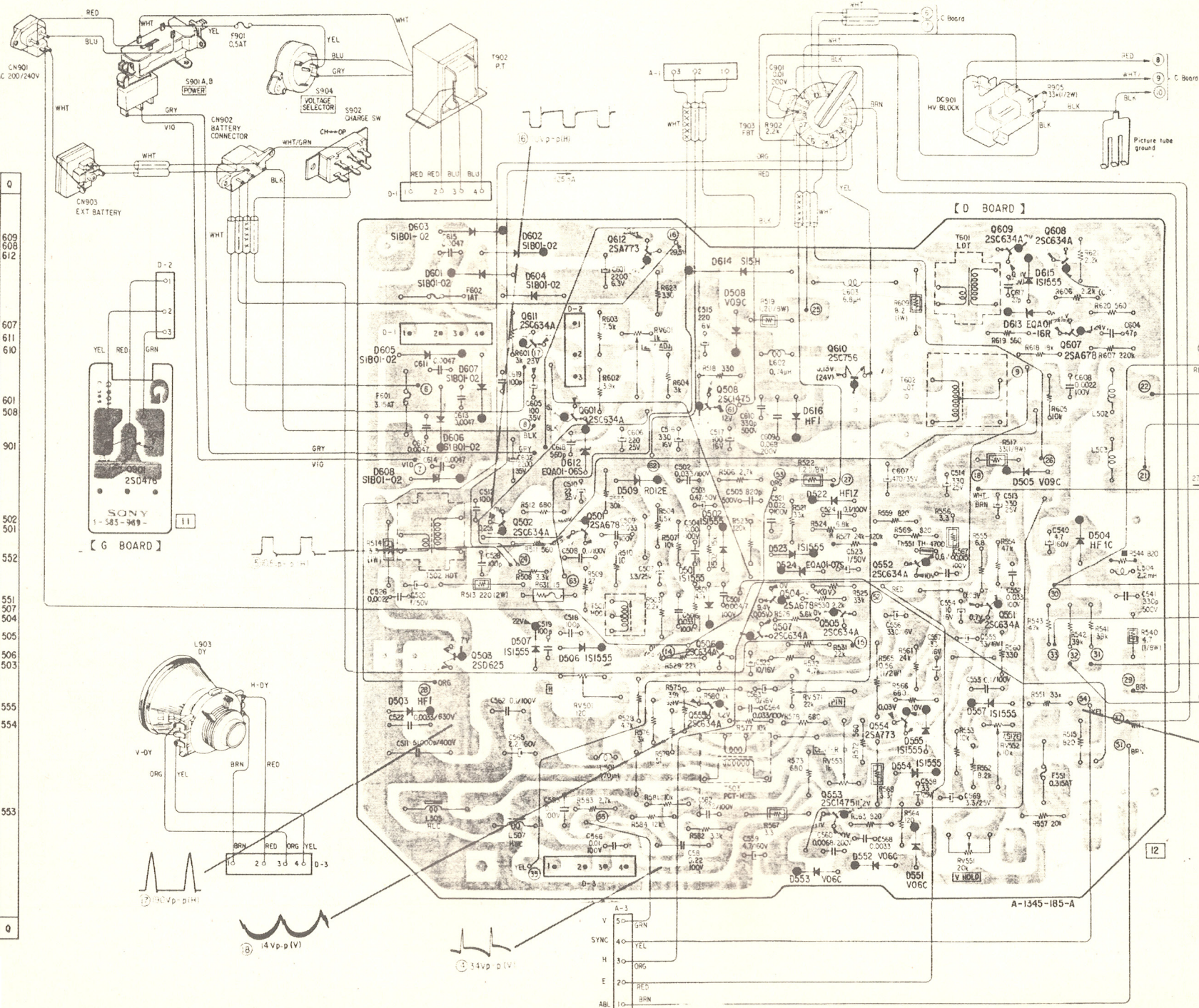
SPECIFICATIONS

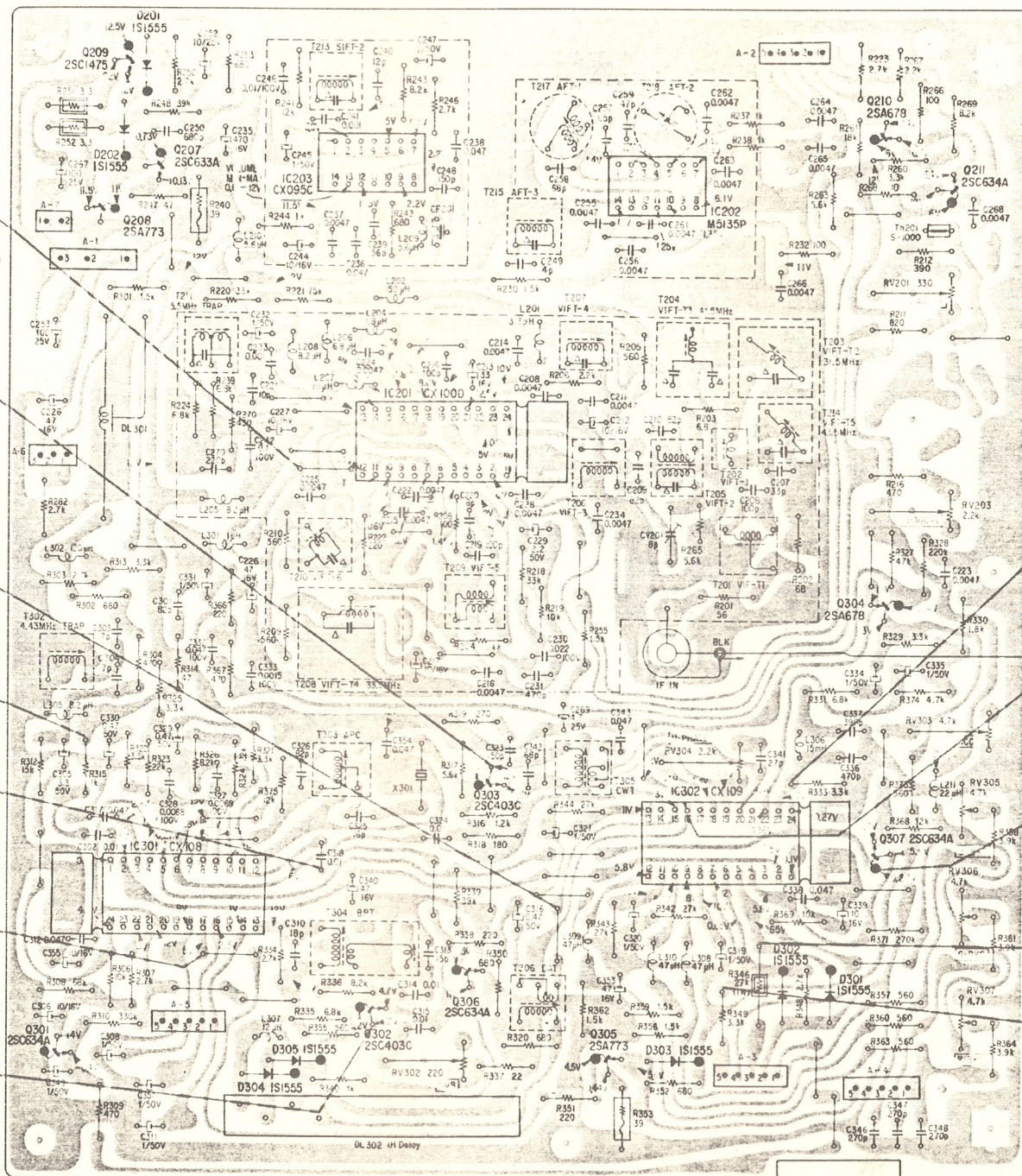
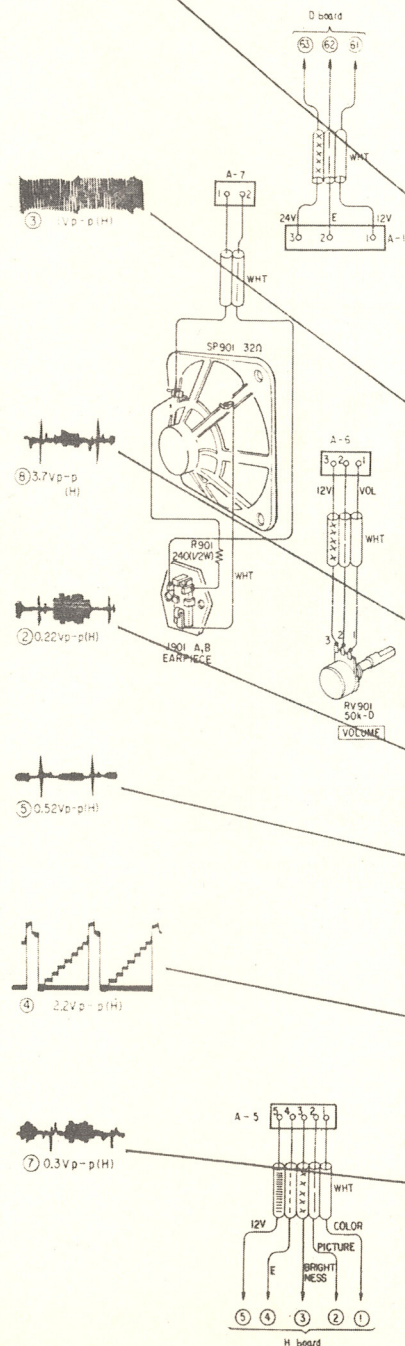
- Television System:** CCIR system B, G and H
- Color System:** PAL
- Picture Tube:** 22 cm, 9" (measured diagonally), 70° deflection TRINITRON system
- Semiconductors:** 1 FET, 38 transistors, 46 diodes and 6 ICs
- Aerial:** VHF: 75Ω unbalanced
UHF: (coaxial aerial socket)
- Channel Coverage:** VHF channels: E2-12
UHF channels: E21-68
- Intermediate Frequencies:** Picture i-f carrier: 38.9 MHz
Color subcarrier: 34.47 MHz
Sound i-f carrier: 33.4 MHz
- Sound System:** 5.5 MHz intercarrier
Output power: 0.9W (at 10% harmonic distortion)
Speaker: 10 cm (4 inches) dia, 32 Ω
- Video System:** RGB cathode drive
- Automatic Controls:** ABL (automatic brightness limiter)
ACC (automatic color control)
ACK (automatic color killer)
AFC (automatic frequency control)
AFT (automatic fine tuning)
AGC (automatic gain control)
ANC (automatic noise canceller)
AVR (automatic voltage regulator)
APC (automatic phase control)
- Anode Voltage:** 17.6 kV at zero beam current
- Power Requirements:** 220/240 V AC, 50 Hz
12 V DC
24 V DC
- Power Consumption:** 46W AC
36W DC (12V)
30W DC (24V)
- Dimensions:** 300 (w) x 270 (h) x 343 (d) mm
11 1/2 (w) x 10 3/4 (h) x 13 1/2 (d) inches
- Net Weight:** 9 kg (20 lb)
- Accessories Supplied:** Earpiece (ME-20B)
Instruction manual
Power cord





ADJ	D	Q
	603	609
	602	608
	601	612
	614	604
	615	613
	605	605
RV601	508	607
	611	611
	610	610
	616	601
	606	601
	612	508
	608	901
	505	505
	509	509
	522	502
	504	504
	502	501
	502	502
	501	501
	501	502
	507	507
	504	504
	505	505
RV571	506	506
RV501	555	555
RV552	503	554
	554	554
RV553	554	554
	553	553
	552	552
RV551	551	551
	553	553
ADJ	D	Q

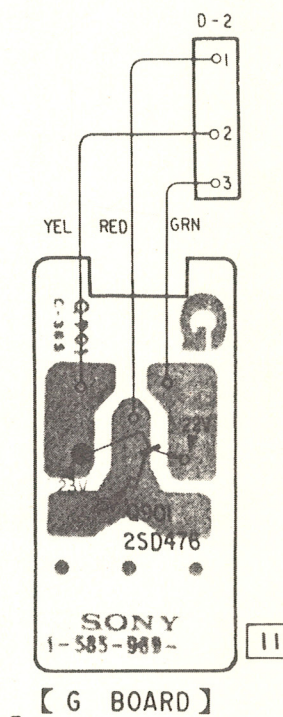
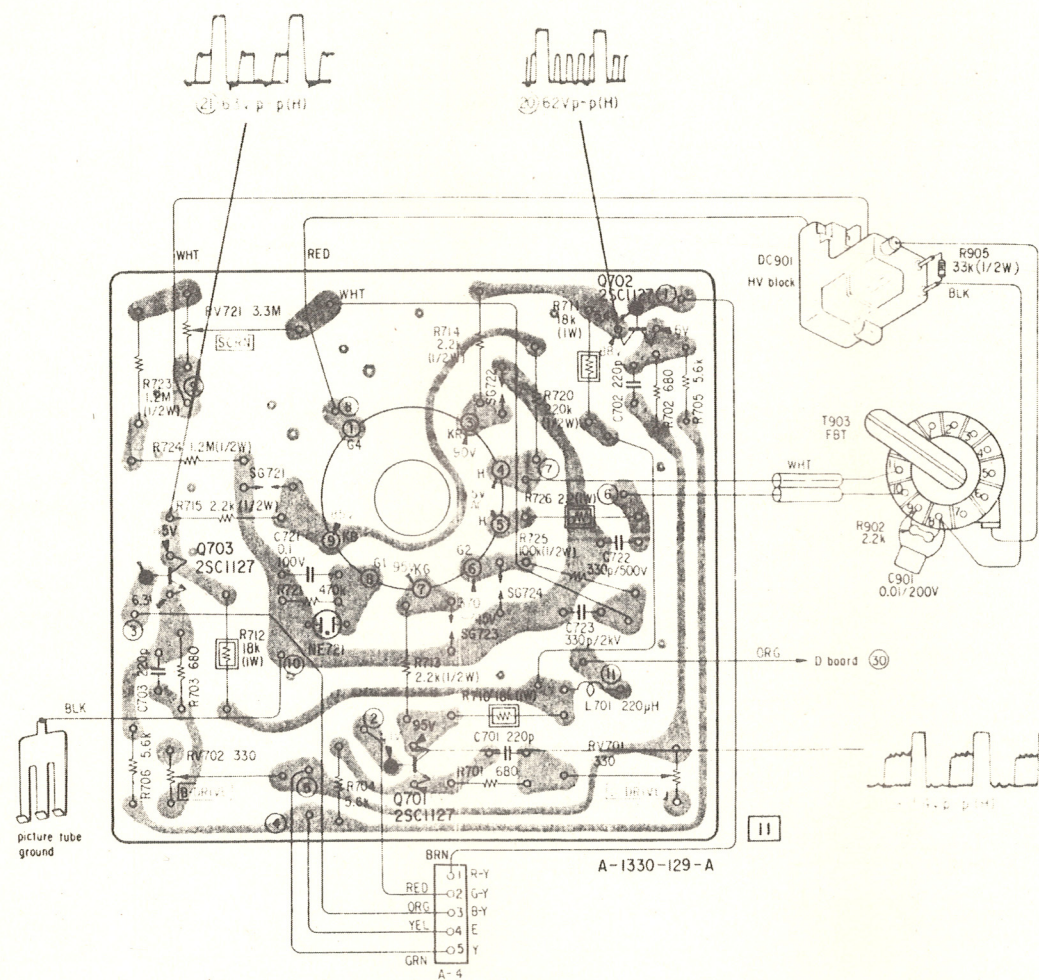




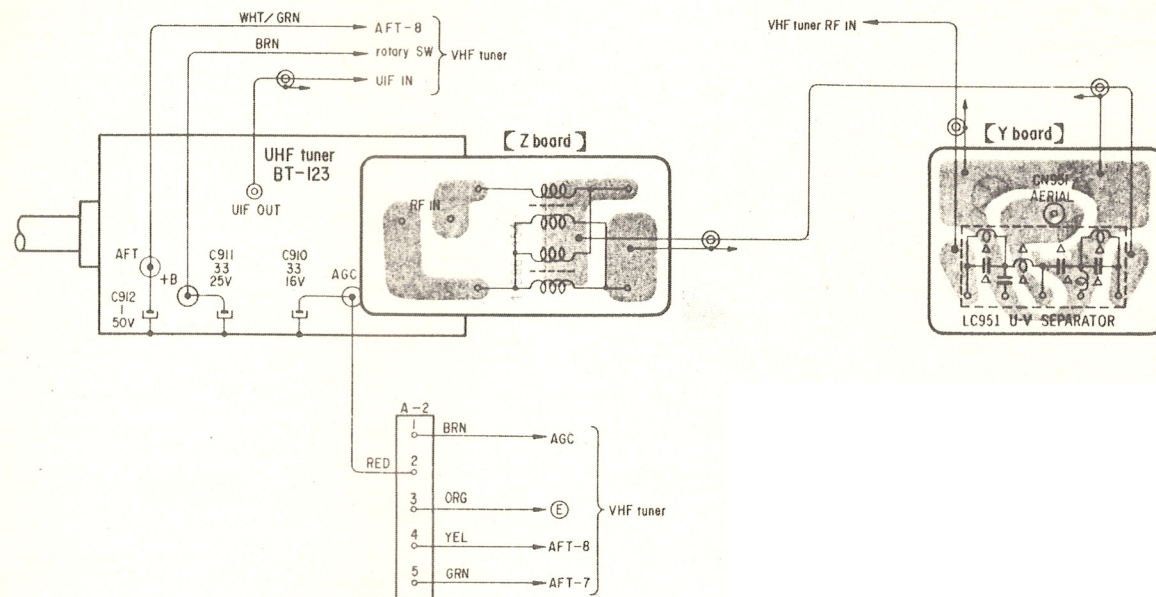
A - 1295 - 124 - A

Q-IC	D	ADJ
209	201	
210	202	
207 IC203 IC202 208 211		RV201
IC201		RV203
304		
		RV303
		RV304
303		RV305
IC302 307 IC301		
306		RV306
302	301 302	RV307
305	305 304	
301	303	RV302
Q-IC	D	ADJ

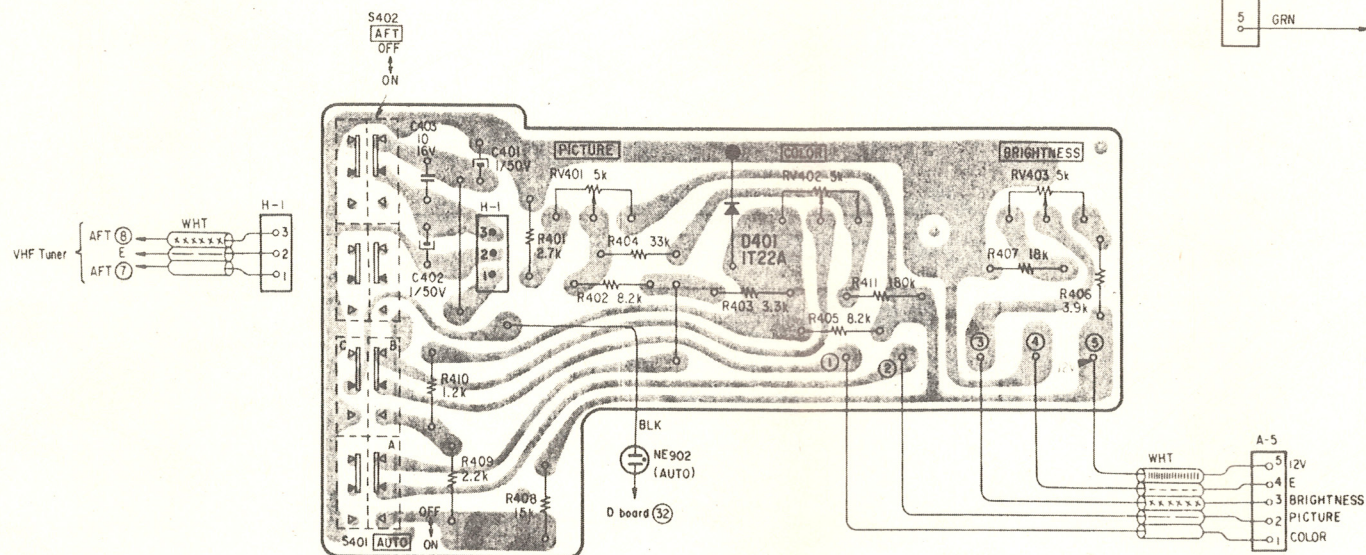
— C Board —



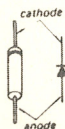
— Z and Y Boards —



— H Board —



1T22A



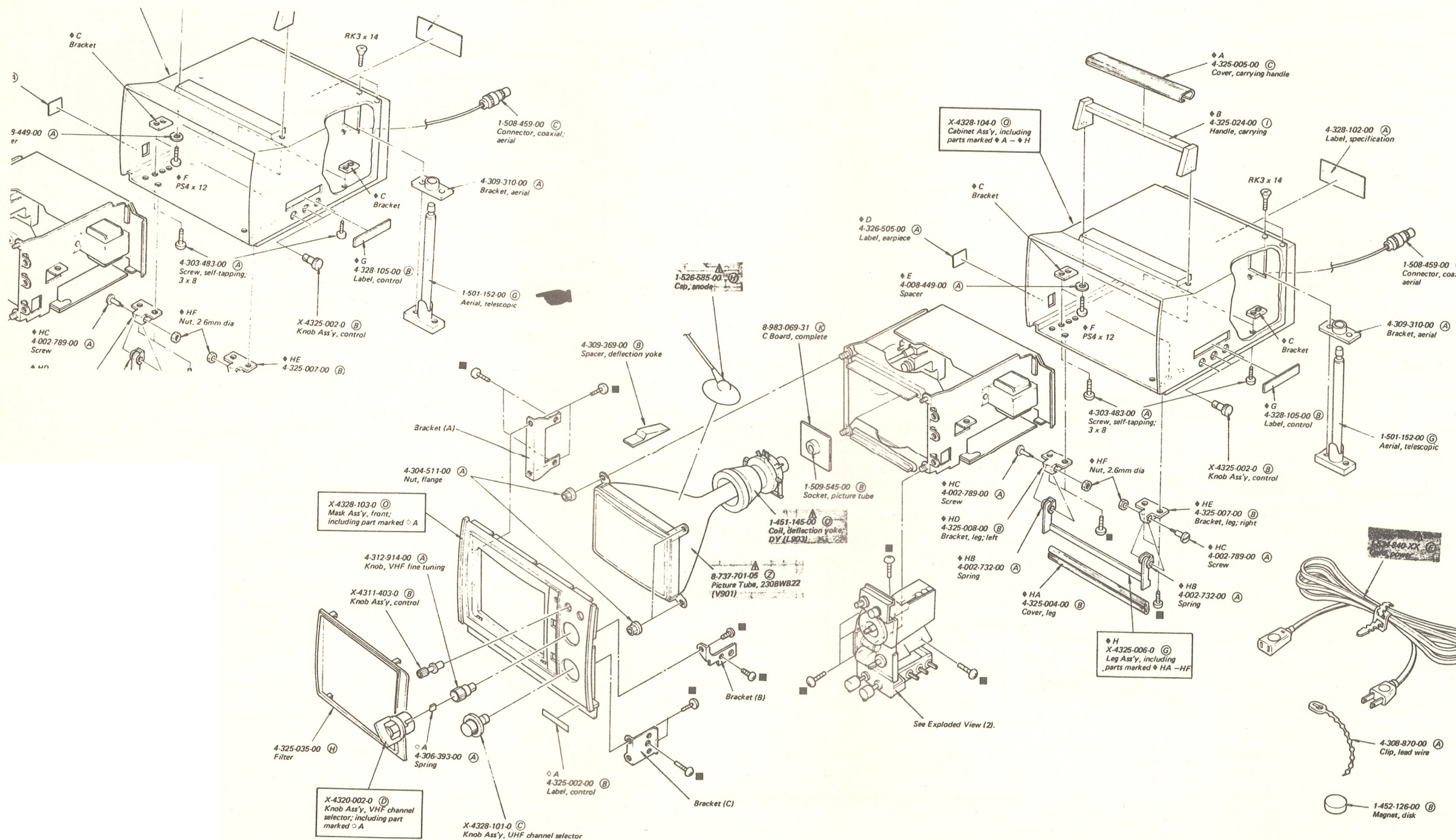
Note: ● ○ : parts extracted from the component side.

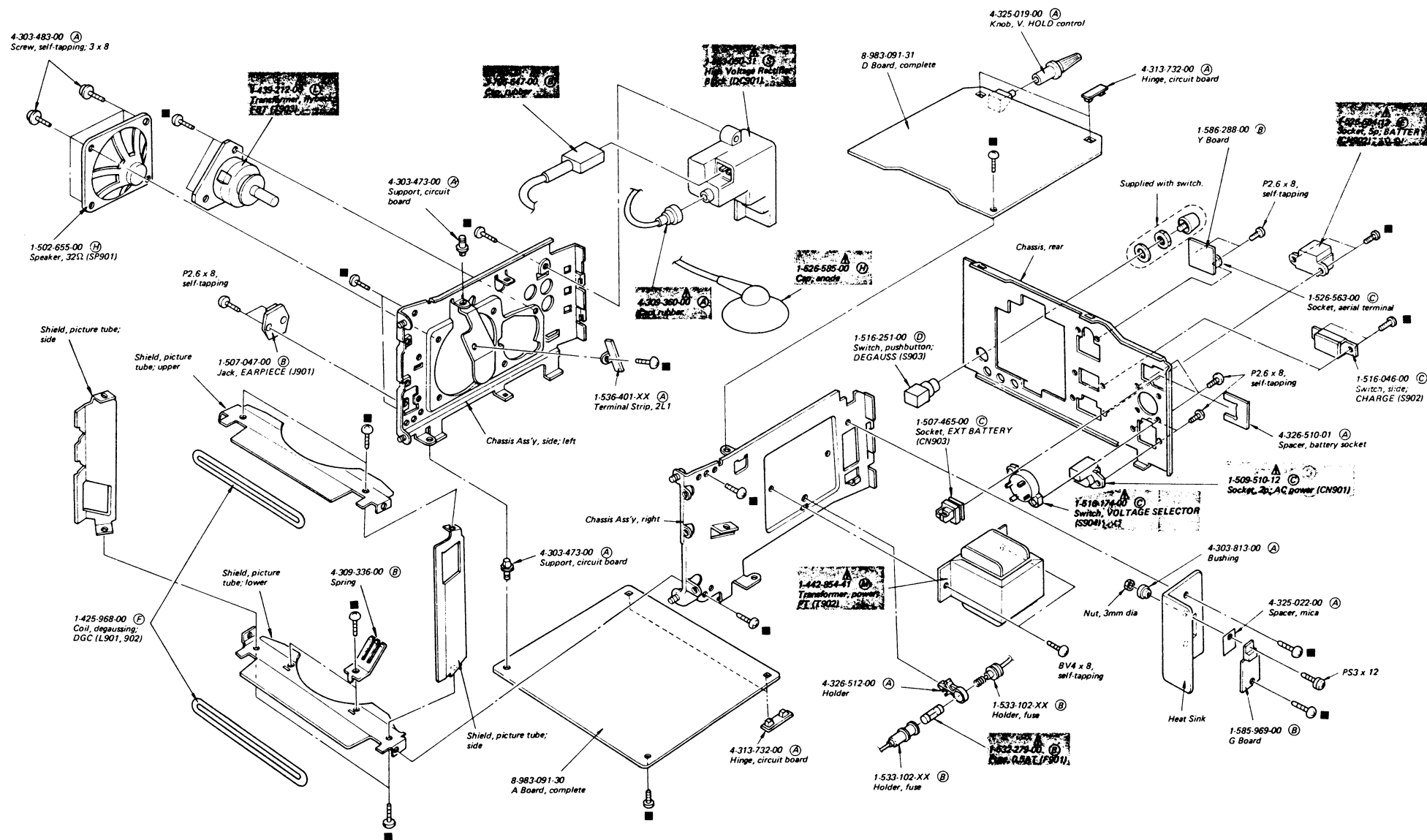
ELECTRICAL PARTS LIST

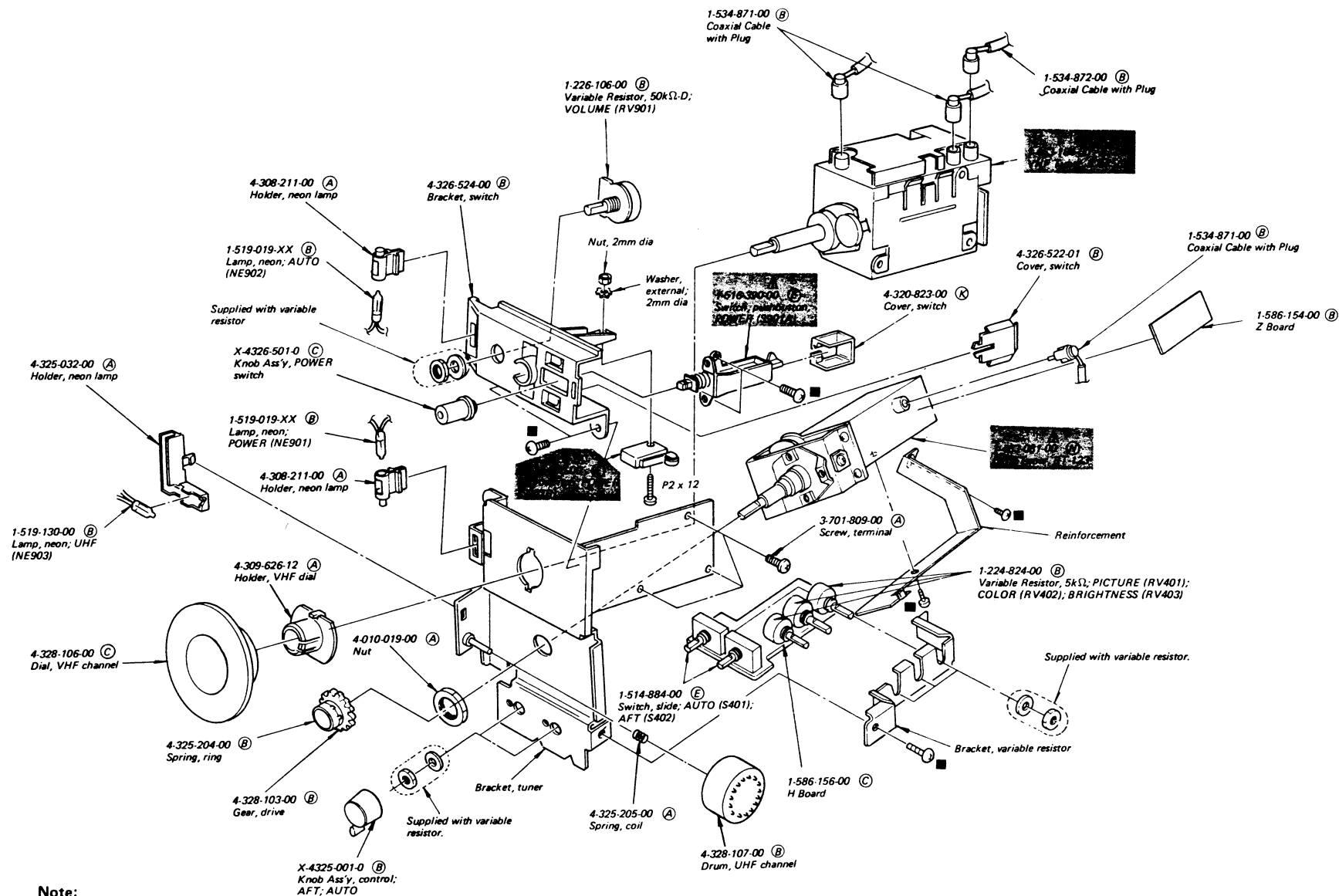
EXPLODED VIEW

 : corrected portion

Correct	Incorrect
1-501-152-00 Ⓒ Aerial, telescopic	1-501-158-XX Ⓒ Aerial, telescopic







Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.
- ■: BV 3x 8, self-tapping

ELECTRICAL PARTS LIST

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
TUNER AND CIRCUIT BOARDS		
		
1-585-969-00	(B)	G Board
1-586-154-00	(B)	Z Board
1-586-156-00	(C)	H Board
1-586-288-00	(B)	Y Board
8-983-069-31	(K)	C Board, complete
8-983-091-30		A Board, complete
8-983-091-31		D Board, complete
SEMICONDUCTORS		
Transistors		
Q207	(B)	2SC634A
Q208	(C)	2SA773
Q209	(C)	2SC1475
Q210	(C)	2SA678
Q211	(B)	2SC634A
Q301	(B)	2SC634A
Q302, 303	(B)	2SC403C
Q304	(C)	2SA678
Q305	(C)	2SA773
Q306, 307	(B)	2SC634A
Q501	(C)	2SA678
Q502	(B)	2SC634A
Q503	(F)	2SD625
Q504	(C)	2SA678
Q505-507	(B)	2SC634A
Q508	(C)	2SC1475
Q551, 552	(B)	2SC634A
Q553	(C)	2SC1475
Q554	(C)	2SA773
Q555	(B)	2SC634A
Q601	(B)	2SC634A
Q607	(C)	2SA678
Q608, 609	(B)	2SC634A
Q610	(F)	2SC756
Q611	(B)	2SC634A

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
Q612	(C)	2SA773
Q701-703	(D)	2SC1127
Q901	(D)	2SD476
Diodes		
D201, 202, D301-305	(B)	1S1555
D401	(B)	1T22A
D501, 502	(B)	1S1555
D503	(B)	HF1
D504	(B)	HF1C
D505	(B)	V09C
D506, 507	(B)	1S1555
D508	(B)	V09C
D509	(B)	RD12E
D552	(B)	HF1Z
D523	(B)	1S1555
D524	(B)	EQA01-07S
D551-553	(B)	V06C
D545, 555, D557	(B)	1S1555
D601-608	(B)	SIB01-02
D612	(B)	EQA01-06S
D613	(B)	EQA01-16
D614	(E)	S15H
D615	(B)	1S1555
D616	(B)	HF1
ICs		
IC201	(H)	CX100D
IC202	(H)	M5135P
IC203	(F)	CX095C
IC301	(K)	CX108
IC302	(K)	CX109

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
Miscellaneous		
Th201	1-800-198-XX	(A) Thermistor, S-1250
Th551	1-800-070-XX	(A) Thermistor, TH-4700
COILS		
All coils are microinductors unless otherwise noted.		
L201	1-407-184-XX	(A) 3.3μH
L202	1-407-171-XX	(A) 150μH
L204	1-407-684-00	(A) 1.8μH
L205, 206	1-407-189-XX	(A) 8.2μH
L207	1-407-157-XX	(A) 10μH
L208	1-407-189-XX	(A) 8.2μH
L209, 210	1-407-187-XX	(A) 5.6μH
L211	1-407-161-XX	(A) 22μH
L301	1-407-178-XX	(A) 1μH
L302	1-407-706-00	(A) 120μH
L305	1-407-189-XX	(A) 8.2μH
L306	1-407-208-XX	(B) 15mH
L307	1-407-158-XX	(A) 12μH
L308-310	1-407-165-XX	(A) 47μH
L501	1-407-191-XX	(B) 470μH
L502, 503	1-459-110-00	(B) Dust Core
L504	1-407-198-XX	(B) 2.2mH
L505	1-459-196-00	(E) Horizontal Linearity, HLC
L507	1-435-056-00	(D) HWC
L602	1-407-365-00	(A) 0.74μH, spook choke
L603	1-407-556-00	(B) 6.8μH, spook choke
L701	1-407-709-00	(A) 220μH
L901, 902	1-425-968-00	(F) Degaussing, DGC
		
DL301	1-415-101-00	(D) Delay Line
DL302	1-415-131-00	(J) 1H Delay Line
TRANSFORMERS AND FILTER		
CF201	1-527-263-00	(B) Ceramic Filter

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
T201	1-409-225-00	(B) VIFT-T1
T202	1-425-613-00	(B) VIFT-1
T203	1-409-270-00	(B) VIFT-T2, 31.5MHz
T204	1-409-214-00	(B) VIFT-T3, 41.5MHz
T205	1-403-947-00	(B) VIFT-2
T206	1-404-047-00	(B) VIFT-3
T207	1-404-046-00	(B) VIFT-4
T208	1-409-294-00	(C) VIFT-T4, 33.5MHz
T209	1-404-044-00	(B) VIFT-5
T210	1-404-045-00	(B) VIFT-6
T211	1-409-235-00	(B) 5.5MHz Trap
T213	1-403-843-00	(B) SIFT-2
T214	1-409-269-00	(B) VIFT-T5, 43.5MHz
T215	1-404-048-00	(B) AFT-3
T217	1-403-810-00	(B) AFT-1
T218	1-403-811-00	(B) AFT-2
T302	1-409-193-00	(B) 4.43MHz Trap
T303	1-405-733-00	(B) Automatic Phase Control, APC
T304	1-425-927-00	(C) Bandpass, BPT
T305	1-425-928-00	(B) Continuous-wave Oscillator, CWT
T306	1-404-081-00	(B) Delay Adjustment, DAT
T501	1-405-760-00	(B) Horizontal Centering Choke, HCC
T502	1-437-021-00	(B) Horizontal Drive, HDT
T503	1-421-268-00	(E) Pincushion Correction, PCT-H
T601	1-437-021-00	(B) Line Drive, LDT
T602	1-439-207-00	(F) Line Output, LOT
T901	1-417-014-00	(B) Aerial Matching Transformer
T902	1-442-854-00	(B) Aerial Matching Transformer
T903	1-432-112-00	(C) Bandpass, BPT
CAPACITORS		
All capacitors are in μF and ceramic unless otherwise noted. 50WV or less are not indicated except for electrolytics. pF = μμF, elect = electrolytic		
C206	1-102-529-11	(A) 100p
C207	1-102-884-11	(A) 33p
C208	1-102-125-11	(A) 0.0047
C209, 210	1-102-527-11	(A) 82p

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			
C211	1-102-125-11	(A) 0.0047			
C212	1-121-651-11	(A) 10	16V	elect	
C213	1-121-403-11	(A) 33	16V	elect	
C214, 215	1-102-125-11	(A) 0.0047			
C216	1-102-973-11	(A) 100p			
C217	1-121-651-11	(A) 10	16V	elect	
C218	1-102-125-11	(A) 0.0047			
C219	1-102-973-11	(A) 100p			
C220	1-102-663-11	(A) 8p			
C221	1-102-858-11	(A) 10p			
C222-225	1-102-125-11	(A) 0.0047			
C226	1-121-409-11	(A) 47	16V	elect	
C227	1-121-651-11	(A) 10	16V	elect	
C228	1-102-125-11	(A) 0.0047			
C229	1-121-450-11	(A) 2.2	50V	elect	
C230	1-108-630-11	(A) 0.022	100V	mylar	
C231	1-102-114-11	(A) 470p			
C232	1-121-391-11	(A) 1	50V	elect	
C233	1-102-074-11	(A) 0.001			
C234	1-102-125-11	(A) 0.0047			
C235	1-121-426-11	(B) 470	16V	elect	
C236	1-101-006-11	(A) 0.047			
C237	1-102-125-11	(A) 0.0047			
C238	1-101-006-11	(A) 0.047			
C239	1-101-884-11	(A) 56p			
C240	1-102-666-11	(A) 12p			
C241	1-102-074-11	(A) 0.001			
C242	1-108-638-11	(B) 0.1	100V	mylar	
C244	1-121-651-11	(A) 10	16V	elect	
C245	1-121-391-11	(A) 1	50V	elect	
C246	1-108-626-11	(A) 0.01	100V	mylar	
C247	1-121-391-11	(A) 1	50V	elect	
C248	1-101-361-11	(A) 150p			
C249	1-102-882-11	(A) 4p			
C250	1-102-116-11	(A) 680p			
C252	1-121-398-11	(A) 10	25V	elect	
C253	1-121-416-11	(B) 100	25V	elect	
C255, 256	1-102-125-11	(A) 0.0047			
C257	1-101-576-11	(A) 1.5p			

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			
C258	1-102-525-11	(A) 68p			
C259	1-102-774-11	(A) 47p			
C261-266	1-102-125-11	(A) 0.0047			
C267	1-121-416-11	(B) 100	25V	elect	
C268	1-102-125-11	(A) 0.0047			
C269	1-121-395-11	(A) 4.7	25V	elect	
C270	1-102-978-11	(A) 220p			
C301	1-102-863-11	(A) 82p			
C302	1-101-004-11	(A) 0.01			
C303, 304	1-102-662-11	(A) 7p			
C305	1-121-393-11	(A) 3.3	50V	elect	
C306	1-121-651-11	(A) 10	16V	elect	
C308	1-121-391-11	(A) 1	50V	elect	
C310	1-102-670-11	(A) 18p			
C311	1-121-391-11	(A) 1	50V	elect	
C312	1-101-006-11	(A) 0.047			
C313	1-102-668-11	(A) 15p			
C314, 315	1-101-004-11	(A) 0.01			
C316	1-121-726-11	(A) 0.47	50V	elect	
C317	1-101-006-11	(A) 0.047			
C318	1-101-004-11	(A) 0.01			
C319-321	1-121-391-11	(A) 1	50V	elect	
C323	1-101-361-11	(A) 150p			
C324	1-101-004-11	(A) 0.01			
C325	1-102-512-11	(A) 16p			
C326	1-102-700-11	(A) 82p			
C327, 328	1-108-624-11	(A) 0.0068	100V	mylar	
C329, 330	1-121-726-11	(A) 0.47	50V	elect	
C331	1-121-391-11	(A) 1	50V	elect	
C332	1-108-634-11	(A) 0.047	100V	mylar	
C333	1-108-616-11	(A) 0.0015	100V	mylar	
C334, 335	1-121-391-11	(A) 1	50V	elect	
C336	1-102-824-11	(A) 470p			
C337	1-102-822-11	(A) 390p			
C338	1-101-006-11	(A) 0.047			
C339	1-121-651-11	(A) 10	16V	elect	
C340	1-121-409-11	(A) 47	16V	elect	
C341	1-102-883-11	(A) 27p			
C342	1-102-676-11	(A) 68p			

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			
C343	1-101-006-11	(A) 0.047			
C346-348	1-102-980-11	(A) 270p			
C349, 351	1-121-391-11	(A) 1	50V	elect	
C353	1-121-409-11	(A) 47	16V	elect	
C354	1-101-006-11	(A) 0.047			
C355	1-121-651-11	(A) 10	16V	elect	
C401, 402	1-121-391-11	(A) 1	50V	elect	
C403	1-121-806-11	(B) 10	16V	elect (nonpolarized)	
C501	1-108-622-11	(A) 0.0047	100V	mylar	
C502	1-108-632-11	(A) 0.033	100V	mylar	
C503	1-121-726-11	(A) 0.47	50V	elect	
C504	1-108-614-11	(A) 0.001	100V	mylar	
C505	1-102-212-11	(A) 820p	500V		
C506	1-108-632-11	(A) 0.033	100V	mylar	
C507	1-121-392-11	(A) 3.3	25V	elect	
C508	1-108-638-11	(B) 0.1	100V	mylar	
C509	1-130-117-11	(B) 0.33	100V	polyethylene	
C510	1-121-480-11	(A) 22	25V	elect	
C511	1-130-118-11	(B) 51000p	400V	polyethylene	
C512	1-102-106-11	(A) 100p			
C513, 514	1-121-654-11	(B) 330	25V	elect	
C515	1-121-972-11	(B) 220	16V	elect	
C516	1-121-521-11	(B) 330	16V	elect	
C517	1-121-415-11	(A) 100	16V	elect	
C518, 519	1-102-106-11	(A) 100p			
C520	1-121-391-11	(A) 1	50V	elect	
C521	1-108-630-11	(A) 0.022	100V	mylar	
C522	1-129-708-11	(A) 0.0033	630V	polyethylene	
C523	1-121-391-11	(A) 1	50V	elect	
C524	1-108-638-11	(B) 0.1	100V	mylar	
C525	1-121-651-11	(A) 10	16V	elect	
C526	1-101-002-11	(A) 0.0022			
C528	1-102-106-11	(A) 100p			
C540	1-121-246-11	(B) 4.7	160V	elect	
C541	1-102-030-11	(A) 330p	500V		
C552	1-108-632-11	(A) 0.033	100V	mylar	
C553	1-108-638-11	(B) 0.1	100V	mylar	
C554	1-131-158-11	(B) 10	16V	tantalum	
C555	1-121-403-11	(A) 33	16V	elect	

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			
C556	1-121-991-11	(B) 330	16V	elect	
C557	1-121-403-11	(A) 33	16V	elect	
C558	1-121-404-11	(A) 33	25V	elect	
C559	1-123-269-11	(B) 4.7	160V	elect	
C560	1-108-690-11	(A) 0.0068	200V	my	
C562	1-108-638-11	(B) 0.1	100V	my	
C563	1-121-651-11	(A) 10	16V	elect	
C564	1-108-632-11	(A) 0.033	100V	my	
C565	1-123-172-11	(B) 2.2	160V	elect	
C566	1-108-626-11	(A) 0.01	100V	my	
C567	1-108-628-11	(A) 0.015	100V	my	
C568	1-108-620-11	(A) 0.0033	100V	my	
C569	1-121-392-11	(A) 3.3	25V	elect	
C581	1-108-642-11	(B) 0.22	100V	my	
C582	1-108-630-11	(A) 0.022	100V	my	
C583	1-108-638-11	(B) 0.1	100V	my	
C601	1-121-658-11	(B) 2200	6.3V	elect	
C602	1-125-154-11	(E) 2200	35V	elect	
C604	1-101-880-11	(A) 47p			
C605	1-121-357-11	(B) 100	35V	elect	
C606	1-121-422-11	(B) 220	25V	elect	
C607	1-121-361-11	(B) 470	35V	elect	
C608	1-108-618-11	(A) 0.0022	100V	my	
C609	1-108-702-11	(B) 0.068	200V	my	
C610	1-102-030-11	(A) 330p	500V		
C611-615	1-102-125-11	(A) 0.0047			
C617	1-102-961-11	(A) 27p			
C618	1-102-115-11	(A) 560p			
C619	1-102-106-11	(A) 100p			
C701-703	1-102-978-11	(A) 220p			
C721	1-108-638-11	(B) 0.1	100V	my	
C722	1-102-030-11	(A) 330p	500V		
C723	1-102-155-11	(A) 330p	2kV		
C901	1-108-692-11	(A) 0.01	200V	my	
C902	1-123-167-11	(B) 1.5	160V	ele	
C910	1-121-403-11	(A) 33	16V	ele	
C911	1-121-404-11	(A) 33	25V	ele	
C912	1-121-391-11	(A) 1	50V	ele	

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			
C913	1-121-403-11	(A) 33	16V	elect	
C914	1-121-416-11	(B) 100	25V	elect	
CV201	1-141-138-XX	(B) 8p		trimmer	

RESISTORS

All resistors are in ohms. Common ¼W carbon resistors are omitted.

Refer to the list on the last page for their part numbers.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted. kΩ = 1000Ω, MΩ = 1000kΩ

R240	1-212-871-11	(A) 39	¼W	fusible (nonflammable)	
R251, 252	1-211-687-11	(A) 3.3	¼W	carbon (nonflammable)	
R346	1-213-160-11	(A) 27k	1W	metal oxide (nonflammable)	
R353	1-212-871-11	(A) 39	¼W	fusible (nonflammable)	

R513	1-206-648-11	(A) 220	2W	metal oxide (nonflammable)	
R514	1-212-366-11	(A) 3.3	1W	metal oxide (nonflammable)	
R517	1-211-930-11	(A) 33	½W	carbon (nonflammable)	
R519, 522	1-210-859-11	(A) 1.2	½W	carbon (nonflammable)	
R540	1-211-401-11	(A) 4.7	½W	carbon (nonflammable)	
R556	1-211-687-11	(A) 3.3	¼W	carbon (nonflammable)	
R565	1-207-460-11	(A) 0.56	½W	wirewound	
R567, 568	1-211-687-11	(A) 3.3	¼W	carbon (nonflammable)	

R609	1-212-371-11	(A) 8.2	1W	metal oxide (nonflammable)	
R631	1-212-861-11	(A) 15	¼W	fusible (nonflammable)	

R710-712	1-213-158-11	(A) 18k	1W	metal oxide (nonflammable)	
R713-715	1-202-581-11	(A) 2.2k	¼W	composition	

R720	1-202-629-11	(A) 220k	¼W	composition	
R723, 724	1-202-647-11	(A) 1.2M	¼W	composition	
R725	1-202-621-11	(A) 100k	¼W	composition	
R726	1-212-364-11	(A) 2.2	1W	metal oxide (nonflammable)	

R901	1-244-858-11	(A) 240	¼W	carbon	
R905	1-202-609-11	(A) 33k	¼W	composition	

RV201	1-224-640-XX	(B) 330, adjustable;	U.AGC-2		
RV203	1-224-643-XX	(B) 2.2k, adjustable;	U.AGC-1		
RV302	1-226-105-00	(B) 220, adjustable;	SMB		
RV303	1-224-644-XX	(B) 4.7k, adjustable;	ACC		
RV304	1-224-643-XX	(B) 2.2k, adjustable;	U.PHASE		
RV305	1-224-970-00	(B) 4.7k, adjustable;	B.BKG		
RV306	1-224-970-00	(B) 4.7k, adjustable;	G.BKG		
RV307	1-224-970-00	(B) 4.7k, adjustable;	R.BKG		

RV401	1-224-824-00	(B) 5k, variable;	PICTURE		
RV402	1-224-824-00	(B) 5k, variable;	COLOR		
RV403	1-224-824-00	(B) 5k, variable;	BRIGHTNESS		

RV501	1-223-102-00	(B) 120, adjustable;	H.CENT		
RV551	1-224-972-00	(B) 20k, variable;	V.HOLD		
RV552	1-224-645-XX	(B) 10k, adjustable;	V.SIZE		
RV553	1-224-642-XX	(B) 1k, adjustable;	CENTER		
RV571	1-224-646-XX	(B) 22k, adjustable;	PIN		

RV601	1-224-642-XX	(B) 1k, adjustable;	22V ADJ		
RV701	1-224-640-XX	(B) 330, adjustable;	G.DRIVE		
RV702	1-224-640-XX	(B) 330, adjustable;	B.DRIVE		
RV721	1-226-053-00	(C) 3.3M, adjustable;	SCRN		

RV901	1-226-106-00	(B) 50k-D, variable;	VOLUME		
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MISCELLANEOUS

CN901	1-509-510-11	(C) Socket, 2P, AC power			
CN902	1-526-584-11	(E) Socket, 3P, BATTERY			
CN903	1-507-465-00	(C) Socket, EXT BATTERY			
CN951	1-526-563-00	(C) Socket, AERIAL terminal			

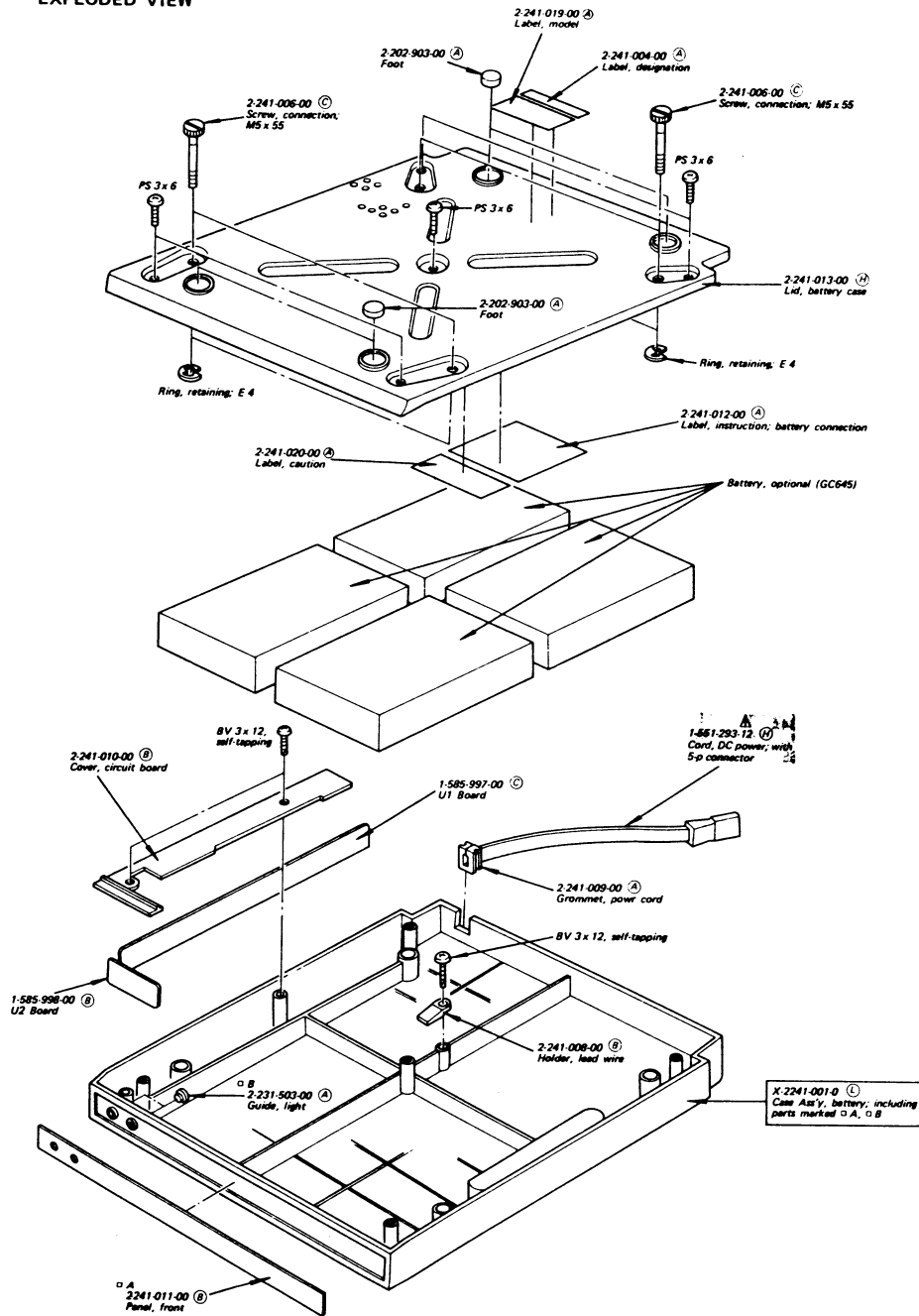
DC901	1-439-050-11	(G) High Voltage Rectifier Block			
F501	1-532-235-00	(E) Fuse, 0.315AT			

F601	1-532-465-00	(C) Fuse, 3.15AT			
F602	1-532-078-00	(B) Fuse, 1AT			
F901	1-532-279-00	(B) Fuse, 0.5AT			
J901	1-507-047-00	(B) Jack, EARPIECE			
LC951	1-417-060-00	(B) UV Separator			
NE721	1-519-108-XX	(B) Lamp, neon			
NE901	1-519-019-XX	(B) Lamp, neon; POWER			
NE902	1-519-019-XX	(B) Lamp, neon; AUTO			
NE903	1-519-130-00	(B) Lamp, neon; UHF			
S401	1-514-884-00	(E) Switch, slide; AUTO			
S402	1-514-884-00	(E) Switch, slide; AFT			
S901A	1-516-390-00	(E) Switch, pushbutton; POWER			
S901B	1-516-658-00	(E) Microswitch, POWER			
S902	1-516-046-00	(C) Switch, slide; CHARGE			
S903	1-516-251-00	(D) Switch, pushbutton; DEGAUSS			
S904	1-516-174-00	(C) Switch, VOLTAGE SELECTOR			
SG721-724	1-519-063-XX	(B) Spark Gap			
SP901	1-502-655-00	(H) Speaker, 32Ω			
V901	8-737-701-05	(Z) Picture Tube, 230BWB22			
X301	1-527-274-00	(G) Crystal			
	1-452-126-00	(B) Magnet, disk			
	1-501-152-00	(G) Aerial, telescopic			
	1-508-459-00	(C) Connector, coaxial; aerial			
	1-509-545-00	(B) Socket, picture tube			
	1-526-585-00	(H) Cap, anode			
	1-533-102-XX	(B) Holder, fuse			
	1-534-871-00	(B) Coaxial Cable with Plug			
	1-534-872-00	(B) Coaxial Cable with Plug			
	1-536-401-XX	(A) Terminal Strip, 2L1			

PACKING MATERIALS AND ACCESSORIES

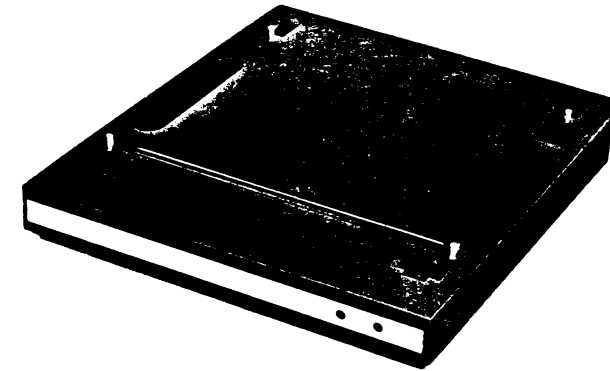
<u>Part No.</u>	<u>Description</u>
1-504-034-32	(C) Earpiece, ME-20B
1-534-840-XX	(B) Cushion, front
4-325-044-00	(B) Sheet, protection
4-325-045-00	(C) Cushion, right
4-325-046-00	(C) Cushion, left
4-328-110-00	(F) Carton
4-495-675-11	(F) Manual, instruction

EXPLODED VIEW



BP-80E

(Optional Accessory)



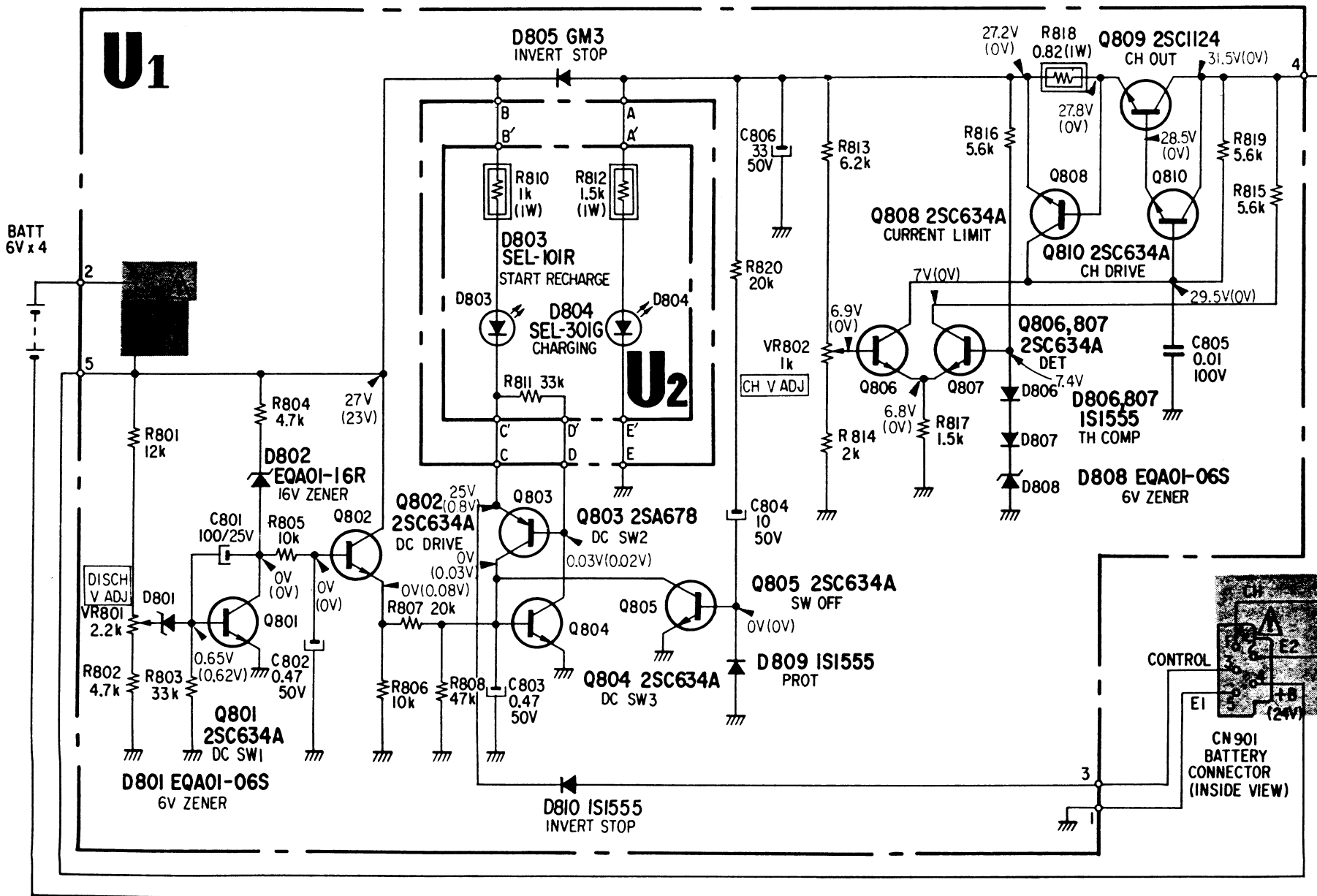
BATTERY PACK FOR KV-9000

SPECIFICATIONS

Semiconductors:	10 transistors, 10 diodes (incl. 2 light-emitting diodes)
Output Voltage:	24 V DC
Recharging Time:	Approx. 10 hours
Operating Time:	3 hours
Capacity:	5.7 A/h (nominal)
Batteries:	3FX3S 6V 5.7 A-HR 4 pieces
Dimensions:	Approx. 290 (w) x 47.5 (h) x 335 (d) mm 11 ³ / ₈ (w) x 1 ⁷ / ₈ (h) x 13 ¹ / ₄ (d) inches
Weight:	Approx. 5.5 kg (12 lb 2 oz)
Accessory Supplied:	Instruction Manual

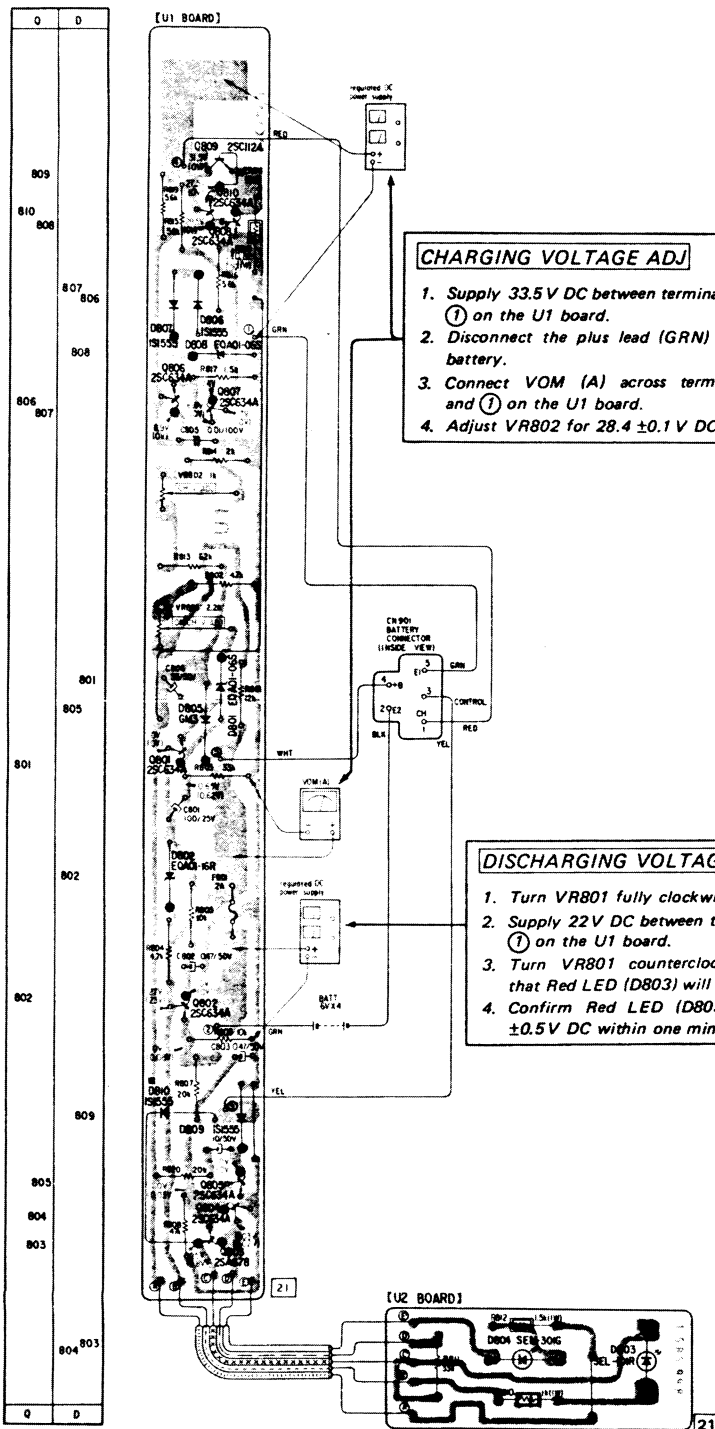
SCHEMATIC DIAGRAM

- Note:**
- Voltages of $-V$ are with the power switch (S901) in the KV-9000E pulled on and with the charge switch (S902) set at CHARGE position.
 - Voltages of $(-V)$ are with the charge switch (S902) set at OPERATE position.



U1 and U2 BOARDS MOUNTING DIAGRAM

— Conductor Side —



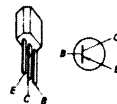
CHARGING VOLTAGE ADJ

1. Supply 33.5 V DC between terminals ④ and ① on the U1 board.
2. Disconnect the plus lead (GRN) from the battery.
3. Connect VOM (A) across terminals ⑤ and ① on the U1 board.
4. Adjust VR802 for 28.4 ± 0.1 V DC.

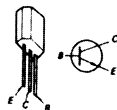
DISCHARGING VOLTAGE ADJ

1. Turn VR801 fully clockwise.
2. Supply 22 V DC between terminals ② and ① on the U1 board.
3. Turn VR801 counterclockwise slowly so that Red LED (D803) will light.
4. Confirm Red LED (D803) lights for 22 ± 0.5 V DC within one minute.

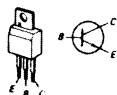
2SA678



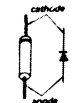
2SC634A



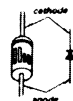
2SC1124



1S1555



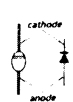
EQA01-06S
EQA01-16R



SEL-101R
SEL-301G



GM3



4. ELECTRICAL PARTS LIST

Ref. No. Part No. Description

CIRCUIT BOARDS

1-585-997-00 (C) U1 Board
1-585-998-00 (B) U2 Board

SEMICONDUCTORS

Transistors

Q801,802 (B) 2SC634A
Q803 (C) 2SA678
Q804-808 (B) 2SC634A
Q809 (C) 2SC1124
Q810 (B) 2SC634A

Diodes

D801 (B) EQA01-06S
D802 (B) EQA01-16R
D803 (B) SEL101R
D804 (B) SEL301G
D805 (C) GM3

D806,807 (B) 1S1555
D808 (B) EQA01-06S
D809,810 (B) 1S1555

CAPACITORS

C801 1-121-416-11 (B) 100 μ F 25 V electrolytic
C802,803 1-121-726-11 (A) 0.47 μ F 50 V electrolytic
C804 1-121-738-11 (A) 10 μ F 50 V electrolytic
C805 1-108-626-12 (A) 0.01 μ F 100 V mylar
C806 1-121-405-11 (B) 33 μ F 50 V electrolytic

RESISTORS

Common $\frac{1}{4}$ W carbon resistors are omitted.
Check schematic diagram for their values.

R810 1-213-143-11 (A) 1 k Ω 1W metal oxide (nonflammable)
R812 1-213-145-11 (A) 1.5 k Ω 1W metal oxide (nonflammable)
R818 1-212-360-11 (A) 1 Ω 1W metal oxide (nonflammable)

VR801 1-224-643-XX (B) 2.2 k Ω -B, adjustable; DISCH V ADJ
VR802 1-224-642-XX (B) 1 k Ω -B, adjustable; CH V ADJ

MISCELLANEOUS

F801 (A) 1-632-203-00 (B) Page 2A

(A) 1-551-293-12 (B) Conf. DC power, with 5-p connector

PACKING MATERIALS AND ACCESSORIES

Part No. Description

2-241-016-00 (B) Bag, protection
2-241-018-00 (B) Cushion
2-241-022-00 (D) Carton
4-495-657-11 (C) Manual, instruction